

MODIS Technical Team Meeting
Thursday, November 7, 2002
Building 33, Room E125

Vince Salomonson chaired the meeting. In attendance were Barbara Conboy, Dorothy Hall, Ed Masuoka, Eric Vermote, Bill Barnes, Bob Barnes, Skip Reber, Wayne Esaias, Mike Teague, Steve Kempner, Jack Xiong, Shaida Johnston, Michael King, and Chris Justice, with Yolanda Harvey taking the minutes.

1.0 Upcoming Events

- Pecora 15 & Land Satellite Information IV Symposium, November 12-15, 2002, Denver, Colorado (abstract deadline past)
<http://www.asprs.org/Pecora-ISPRS-2002/program.html>
- EOS Investigator Working Group Meeting, November 18-20, Ellicott City, Maryland
http://eospsa.gsfc.nasa.gov/eos_homepage/iwg2002.html
- IGARSS 2003, July 21-25, 2003, Toulouse, France (abstracts due by January 17, 2003)
<http://www.igarss03.com/>

2.0 Meeting Minutes

2.1 General Discussion

Salomonson reported that there are some meetings coming up, including the IWG, which will feature a number of posters, papers, and presentations on MODIS. John Townshend, Hall, and Steve Running will attend. In addition, Bill Barnes is giving an engineering colloquium presentation on MODIS performance on December 2. Masuoka reported that Ron Burke will attend talks on Code 900 on November 22nd, and he hopes that a talk on Rapidfire will be selected for the presentation.

Salomonson noted that Claire Parkinson is looking for validation plans for the Aqua working group, and he asked that each discipline begin working on tentative plans.

Conboy announced that all final revisions have been submitted for incorporation into the Data Products Handbook, and it's been sent off to Sterling Spangler. She also announced that she has begun looking for a location for the next MODIS Science Team Meeting.

Skip Reber announced that MODIS validation information on his website (<http://eosdatainfo.gsfc.nasa.gov>) is up to date, and he's currently working on linking to other web pages. He also announced that Mike Moore is leaving NASA. Chris Justice asked Reber if he had any information on the status of the maintenance recompetes, but Reber didn't have any.

Salomonson said that the next Technical Team Meeting will be on November 21st, and then will not meet again until December 12th.

2.2 Instrument Status

Bill Barnes reported that there are no new issues with either instrument. Salomonson said that he sent Barnes an email about the deep space maneuver; he hopes to have a meeting December 12th, after which he will meet with Ghassem Asrar in January of 2003.

Salomonson reported that he had a fruitful talk with Chuck McClain about a comparison of MODIS to SeaWiFS.

2.2.1 Aqua MODIS

No new issues.

2.2.2 Terra MODIS

No new issues.

2.3 DAAC

Kempler reported that everything is going well. They had some problems with the toolkit, and they are updating the database. Teague reported that they are getting reprocessed data at 3x; everything is within objectives and going well.

Salomonson reported that Reber acted on Teague's request to increase Aqua data priority for testing ingest at the EDC and NSIDC over the weekend. Masuoka added that the testing will be over the November 9th weekend.

2.4 MODAPS

Masuoka reported that they've begun the third Land science test, and they found a problem on their side with one of the Land loader production rules that they corrected. Teague noted that Dr. Wan's data has not yet come in. Masuoka said that they are on track for a December 2nd review of Land PGE readiness for reprocessing. He sent Rich Hucek two days of data to make sure that he's happy with it now that all the Atmosphere PGE changes were in. Teague added that the Atmospheres people wanted MODAPS to process an additional day of data to look at, and they are in the process of doing so now. Masuoka suggested that Atmospheres give their approval before MODAPS begins reprocessing in earnest.

Teague noted that there were 18 closed data days, not all of which are at 100%, and another 15 partial data days at varying levels of completeness. Salomonson asked if Atmospheres is in forward processing, and Teague said yes, it's forward processing with Collection 4.

Salomonson noted that he ran into Andy Dessler, who was very hopeful and optimistic for the future of MODIS data. Kempler said that the DAAC has been working very closely with him.

Johnston asked which calibrations still need to be done for Aqua if L1B is considered provisional while SST is considered valid. Masuoka said that they are working on some yaw values, and it could just end up that they have some products validated ahead of L1B. The provisional L1B data are available now. Esaias asked if the navigation calibration statement has been posted yet on the GES DAAC Website, and Masuoka said no, but he will ask Wolfe to provide one to the DAAC.

2.5 Land

Chris Justice announced that the Remote Sensing of the Environment special issue is out, and can be downloaded as a "pdf" off of the Goddard Library website. He asked if Aqua Direct Broadcast is up and running, and Salomonson suggested that he speak to Pat Coronado, though he thought that DB has been running since first light. Justice said that he wanted to make sure that it is on all over the globe, because he got a question about it from a ground station and he couldn't say for sure. Justice also noted a lot of interest in setting up new MODIS DB stations in Missouri (USA) and South Africa.

Vermote reported that he is continuing to work with Hall on the snow products for the MMDS CD. He also reported that the interface has been enhanced again so that now users can scroll through all images for Land and can more easily browse the data on the CD. He added that the interface idea can be reused in the future, and has been worth the time and effort. Salomonson said that he will look at the CD and then put it into production.

2.6 Oceans

Esaias reported that when they get the next delivery of data from the University of Miami, he will tell NOAA that they can begin distributing Aqua Ocean products from their Near Real Time Processing System.

Esaias reported that Bob Evans and the SST group at Miami made a breakthrough on the SST equation; it looks really good, and they will say at the upcoming IWG meeting that with the imminent delivery of the 12 -micron and 14 -micron portions, Aqua MODIS SST will be considered validated. Masuoka noted that the L1B data is still provisional and that the Ocean SST products will be the first Aqua products to reach the validated stage of maturity. Esaias said that they merged MODIS' and AMSR's SST products, and the result is as complete SST coverage as has ever been seen. With the new Aqua SST, MODIS and AMSR should enable dramatic improvement in forecasting at the National Weather Center. Salomonson added that he has heard but not confirmed that AIRS and AMSR are requesting MODIS SST data to validate their comparable data products. Esaias emphasized that MODIS SST is being represented very well.

Esaias noted that he wrote an ocean productivity paper recently (with many co-authors), and at the upcoming IWG, he will present a poster based on that paper. Also, Greg Mitchell published a paper in which he used MODIS SST; Mark Abbott will give a fluorescence presentation and introduce other MODIS products; and Dennis Clark will also give a presentation. In all, there will be 6 posters presented at the IWG.

2.7 Cryosphere

Hall reported that George Riggs just finished revising the snow products user guide, which will soon go up on the website. Salomonson noted that Hall is bringing MODIS data to modelers, and Hall clarified that she is developing monthly maps with Collection 4 data to be used for validation in GCMs.

2.8 Atmospheres

King reported that MOD06 (cloud product on Terra) looks good, but he needed something to compare it to. After they get something to validate it against, they will retroactively declare it validated.

3.0 Action Items

3.1 New Action Items

None.

3.2 Old Action Items

3.2.1 Science Team to update the Terra Data Products Handbook and submit edits and new gray scale imagery to Barbara Conboy within a few weeks.

Status: Closed.

The handbook is expected to go to print in November.